

AMENDMENTS TO THE CLAIMS

1-5. (Canceled)

6. (Currently Amended) A method, comprising:

a) providing:

i) a patient implanted with a device, wherein said device comprises
comprising;

1) a implantable pacemaker element; and

2) a plurality of atrial and ventricular pacing leads connected to
said pacemaker element, wherein said pacing leads are configured
for simultaneous activation and coursing to the ventricles and atria;
and

ii) a plurality of sensing leads connected to said pacemaker coursing to the
ventricles and atria;

b) initiating one or more pacing bursts by said pacemaker element, wherein said
ventricles and atria are simultaneously paced; and

c) detecting an earliest arriving electrical signal following termination of said
pacing bursts.

7. (Currently Amended) The method of [[c]]Claim 6, wherein prior to step b) a cardiac
arrhythmia is detected in said patient.

8. (Currently Amended) The method of [[c]]Claim 6, wherein said earliest arriving
electrical signal is from the ventricles.

9. (Currently Amended) The method of [[c]]Claim 6, wherein said earliest arriving
electrical signal is from the atria.

10. (Currently Amended) The method of [[c]]Claim 6, further comprising step d)
defibrillating said ventricles under conditions such that normal sinus rhythm is
restored.

11-26. (Canceled)

27. (New) A device, comprising:

- a) an implantable pacemaker configured to initiate an anti-tachycardia pacing burst;
- b) an implantable defibrillator element connected to said pacemaker element; and,
- c) a plurality of atrial and ventricular sensing leads connected to said pacemaker element, wherein said sensing leads are configured to detect an earliest arriving electrical signal following said pacing burst.

28. (New) The device of Claim 27, wherein said pacing burst is initiated by a microprocessor.

29. (New) The device of Claim 27, wherein said defibrillator generates said anti-tachycardia pacing burst.

30. (New) The device of Claim 27, wherein said pacing burst induces a blanking period.

31. (New) The device of Claim 27, further comprising a plurality of atrial and ventricular defibrillation leads connected to said defibrillator element.

32. (New) The device of Claim 27, further comprises a plurality of atrial and ventricular pacing leads connected to said pacemaker element.

33. (New) The device of Claim 27, wherein said pacemaker element further comprises a storage memory connected to said sensing leads.

34. (New) The device of Claim 27, further comprising at least one defibrillation lead capable of converting an abnormal heart rhythm into normal sinus rhythm.

35. (New) The device of Claim 27, wherein said sensing leads are quadripolar.